



Earth Science Education Digital Library

Last updated: 14 February 2003

Revision: 03

Project Objectives

- Dramatically improve how the education community locates and connects to NASA educational resources.
- Provide a single entry portal for locating NASA Earth and space science educational materials.
- Enable ESEDL to share and disseminate education resources with other digital libraries.
- Integrate ESEDL into NASA's infrastructure.
- Connect additional collections to ESEDL.

Sample Use Cases

- A high school teacher needing an activity on heat budget searches the NASA ESEDL to find appropriate classroom activities for his class.
- An elementary school teacher uses ESEDL to locate visuals showing the Earth's volcanoes.
- A science museum curator searches NASA ESEDL for Landsat images of Ethiopia to illustrate desertification.

Customers

- Entire formal and informal education community.
- Education professionals (learning facilitators and professional learning material developers) and adult and child learners.

Deliverables for Phase 1

- An evolved version of the JDL software hardened for operational use with improved database performance and security, and an updated, maintained and more stable defect repair system.
- An Open Archives Initiative (OAI) server that can respond to harvesting requests.
- Increased library holdings by connecting the following education resource collections: ESE Reviewed Collection, Scientific Visualization Studio resources, and portions of Earth Observatory, Visible Earth, and Space Links.
- Integration of the Library with the InsideNASA as a channel, OneNASA Education Portal, and NASA LT ExP.

Milestones for Phase 1

	<i>Complete</i>	<i>What</i>	<i>Confidence</i>
ET.2-L.2-JDL.1	1 Nov '02	Initial development and enhancement plan	Green
ET.2-L.2-JDL.2	31 Dec '02	Improve database performance and search speed	Green
ET.2-L.2-JDL.3	31 Mar '03	Develop an Open Archives Initiative (OAI) server that can respond to harvesting requests	Green
ET.2-L.2-JDL.4	30 Apr '03	ESE Reviewed Product collection is searchable and obtainable through ESEDL.	Green
ET.2-L.2-JDL.5	30 Jun '03	Security of ESEDL is increased.	Green
ET.2-L.2-JDL.6	30 Jun '03	An ESEDL channel is available through Inside NASA.	Green
ET.2-L.2-JDL.7	30 Jun '03	Keep the Scientific Visualization Studio Collection	Green
ET.2-L.2-JDL.8	30 Sep '03	Connect ESEDL One with NASA Portal.	Green
ET.2-L.2-JDL.9	30 Sep '03	Maintain and operate ESEDL system every quarter.	Green
ET.2-L.2-JDL.10	30 Sep '03	Fix ESEDL system bugs every qtr.	Green
ET.2-L.2-JDL.11	30 Sep '03	Incorporate portions of the Earth Observatory/Visible Earth.	Green
ET.2-L.2-JDL.12	30 Sep '03	Guide SpaceLink in meta-tagging their holdings.	Green
ET.2-L.2-JDL.13	30 Sep '03	ESEDL is integrated w/ExP.	Green

People

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Partnerships

- NSF, f Digital Library for Earth System Education and National Science Digital Library
- Alexandria Digital Library: ADEPT



- NASA Office of Space Science (Space Science Resource Directory), GSFC Education Office (Edmall) and future collection partners

Technologies

- Existing JDL software (Java, MySQL, Tomcat)
- Jini™ technology, OAI, SDLIP, XML

Quality Assurance

- Software testing prior to deployment
- End-user usability & functionality testing

Dependencies

- Existing JDL prototype
- InsideNASA, OneNASA Education Portal, ExP
- ESE Reviewed Collection
- Scientific Visualization Studio Collection
- Earth Observatory
- SpaceLink